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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,724	06/15/2007	Nicolas Gaillard	1759.235	3297
23405 7590 09/25/2009 HESLIN ROTHENBERG FARLEY & MESITI PC 5 COLUMBIA CIRCLE			EXAMINER	
			PEZZUTO, HELEN LEE	
ALBANY, NY 12203			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			09/25/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/599,724	GAILLARD ET AL.		
Office Action Summary	Examiner	Art Unit		
	Helen L. Pezzuto	1796		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tird d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 30 € 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-11 and 13-20 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 and 13-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration. For election requirement.			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the defended or b) for objected to by the defended or by the drawing(s) is objection is required if the drawing(s) is objection is	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate		

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DETAILED ACTION

Response to Amendment

Applicant's amendment to claims 1-2, 7, 15, and the addition of claims 18-20 filed in the response on 5/6/09 is acknowledged. Upon further consideration, Oswald et al. (US-853) is withdrawn as an applied reference as it does not fairly suggest the recited R7 substituent in the cationic monomer. Currently, claims 1-11, and 13-17 are pending in this application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-11 and 13-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Albrecht et al. (US-887) or Schinabeck et al. (US-760) in view of Albrecht et al. (US-887).

US 6,187,887 to Albrecht et al. discloses water-soluble or water-swellable copolymer comprising structural units a), b), c), and d) as defined in formula (I), (IIa)

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and/or (IIb), (III), and (IV), respectively, encompassing the instant anionic, non-ionic, cationic and additional monomeric recurring units (col. 2, line 40 to col. 4, line 44; col. 5, lines 9-21; working Examples). Prior art further suggests incorporating 0.0001-50 mol% of crosslinking monomers (col. 4, lines 48-64), and other structural component (e) including (meth) acrylic acid, which further embraces the instant anionic monomers (col. 4, line 65 to col. 5, line 8). The respective proportions of the various monomeric components are within those expressed in the present claims, with a preferred amount of 40-80 mol% (a) and 2-30 mol% (c), meeting the recited y>x limitation (col. 5, lines 9-15). The resultant copolymer has a number average molecular weight of 50,000 to 5,000,000, and is taught to have utilities as additives in aqueous building materials, water-based paints and coating systems (see abstract; col. 5, lines 16-21; col. 6, line 66 to col. 7, line 3). US-887 suggests using 0.05-5 wt% of the resultant copolymer based on the dry weight of the construction material, paint or coating system (col. 7, lines 4-9).

US 7,238,760 to Schinabeck et al. discloses watersoluble or water-swellable copolymer comprising structural Art Unit: 1796

units a), b), c), and d) as defined in formula (I), (IIa) and/or (IIb), (IIIa), and (IV), respectively, embracing the instant anionic, non-ionic, cationic and additional monomers (col. 3, line 20 to col. 6, line 30; working Examples). The respective proportions of the various monomeric components are within those expressed in the present claims, with a preferred amount of 40-80 mol% (a) and 2-30 mol% (c), meeting the recited y>x limitation (col. 5, lines 9-15). The carboxylic acid group/acrylic acid containing anionic monomer expressed in claims 18 and 19 also fall within the scope of prior art structure (IIb), wherein R^7 can be a carboxylic acid group (col. 4, lines 28-52). The resultant copolymer has a number average molecular weight of 50,000 to 20,000,000, and is taught to have utilities as additives in aqueous building materials, water-based paints and coating system (see abstract; col. 6, lines 34-38; col. 8, line 45-49). US-887 suggests using 0.05-5 wt% of the resultant copolymer based on the dry weight of the construction material, paint or coating systems (col. 8, lines 50-53). US-760 does not expressly exemplify the use of a crosslinking agent, but does, however, discloses the possible need for low degree of crosslinking (col. 7, lines 23-26) . Analogous US-887

specifically discloses using 0.0001 to 50 mol% of a crosslinking agent as required in specific application, including diacrylates and methylene-bis-acrylamide as expressed in the present claims. Accordingly, it would have been obvious to one having ordinary skill in the art to incorporate a crosslinker as required by specific application, motivated by the reasonable expectation of success as taught by US-887.

Since prior art references teach all the recited monomers within the relative proportions expressed in the present claims, it would have been obvious to one having ordinary skill in the art to prepared an associative amphoteric polymer containing the recited recurring units, motivated by the reasonable expectation of success.

Regarding the newly recited "consisting essentially of" in claim 1, the examiner is of the position that applicant has not provide evidence showing the inclusion of prior art additional recurring unit would materially affect the basic novel characteristics of the claimed invention.

Furthermore, one having ordinary skill in the art would expect that upon elimination of prior art additional recurring unit, the consequence would be the loss of its function. Thus, rendering obvious the present claims.

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Response to Arguments

Applicant's amendment and arguments filed considered. The crux of applicant's argument lies in Albrecht and Schinabeck requires four separate monomeric components as opposed to applicant's polymer consisting essentially of only three monomer components. This is not found to be compelling as applicant has not shown the inclusion of prior art 4th monomeric component would affect the basis novel characteristic of the claimed invention. Moreover, as stated above, the omission of prior art 4th monomeric component with consequent loss of its function is obvious. Accordingly, the examiner's position is maintained.

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS

ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen L. Pezzuto whose telephone number is (571) 272-1108. The examiner can normally be reached on 8 AM to 4 PM, Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Helen L. Pezzuto/ Primary Examiner Art Unit 1796

hlp